

ABHINAY GEDELA

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EXPERIENCE

Software Engineer Intern , Bizcraft Advisors

2024,MAY - PRESENT

- Implemented automated UI tests using the Playwright framework with TypeScript, improving test coverage and reliability.
- Developed and executed comprehensive Jest tests for 15+ Express.js endpoints, ensuring robust backend functionality and data integrity, which significantly reduced production issues.
- Optimized AI-powered scripts using OpenAI and Azure Form Recognizer to automate data extraction from over 1,000 Form 16 tax documents, achieving 95% accuracy and reducing processing time by 80%.
- Developed a sophisticated Machine Learning model leveraging Large Language Models (LLMs) to classify 60+ file categories by integrating textual and visual features; utilized OpenAI's API to create high-quality text embeddings, Sentence Transformers and Hugging Face models for embeddings, and stored them efficiently in ChromaDB while testing with Pinecone for performance evaluation; trained a logistic regression classifier on combined embeddings, achieving an accuracy of 87.5% in diverse file classification tasks.
- Developed and served as a tester for a ledger prediction system for invoices,bank statements and receipts leveraging OpenAI embeddings for high-quality feature extraction and ChromaDB for efficient storage and retrieval, ensuring accurate and scalable classification.

Developer, SRKR College Website

2023,DEC - PRESENT

- Contributed as a key member of the development team during critical accreditation inspections by NAAC and NBA, ensuring alignment with accreditation standards and requirements.
- Spearheaded the implementation of user-centric design principles, significantly enhancing website usability and overall user experience.
- Developed KBC (Kaun Banega Codepathi), a quiz website for programming knowledge assessment, achieving breakeven and profitability; participated in College Fest with this website and made profits..
- Taught several courses throughout the college as part of a team, contributing to the academic community.

PROJECTS

MAGICAL DB 🔗(<http://www.manjarilab.com/databases/magicaldb/index.php>)

- Developed a dynamic website for Hyderabad Central University to explore gene interactions.
- Used the MAGICAL DB platform to enhance data access and analysis, reducing research time by 50%.
- Optimized database performance and implemented essential backend features.
- Visualized and analyzed large datasets using Cytoscape, aiding in valuable insights and informed decision-making.

BhimavaramOpen (Tennis Tournament)🔗(<https://www.bhimavaramtennis.com/>)

- Architected and managed database schema for player, match, tournament schedule, and result information storage.
- Implemented a comprehensive player profile management system, facilitating personal detail modification, photo uploads, and match stats tracking.
- Conducted rigorous unit tests and comprehensive testing to debug backend code and ensure seamless cross-browser and cross-device functionality.

KBC(Kaun Banega Codepathy) 🔗(<http://kbc.free.nf/>)

- Built a quiz website for programming knowledge assessment using HTML, CSS, JavaScript, PHP, and MySQL.
- Implemented user authentication, dynamic quiz generation, real-time scoring, and performance analytics.
- Achieved project breakeven and profitability by driving user engagement and satisfaction.

EDUCATION

Bachelor of Degree : Computer Science & Design , SRKR Engineering College

2022 – 2026

Intermediate: Adithya Junior College

2020 – 2022

SKILLS

Programming Languages: C,Java,Python

Web Development: HTML, CSS, Javascript, Php,Node.js, React.js,Express.js, MySQL, MongoDB, PostgreSQL

Frame Works: FastAPI,Playwright

Tools: Git, Blender ,3D Maya

CERTIFICATES

- Html , Css , JavaScript
- Java and Python
- Postman API
- NIT Startup Expo